

10/566866

ERP02.002APC SEQUENCE LISTING

SEQUENCE LISTING

<110> Werling, Dirk

<120> ANTIGEN DELIVERY SYSTEM

<130> ERP02.002APC

<150> PCT/GB2004/003386

<151> 2004-08-05

<150> GB 0318247.4

<151> 2003-08-05

<160> 15

<170> FastSEQ for windows Version 4.0

<210> 1

<211> 577

<212> DNA

<213> Bos taurus

<220>

<221> misc_feature

<222> 34, 53, 189, 258, 289, 357

<223> n = A,T,C or G

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gcagtgggtg	agcttccaga	gaaatctaag	atgcaggaga	tctaccagga	gctgacncgg	360
ctgaaggctg	cagtgggtga	gctcccagag	aaatctaagc	agcaggagat	ctaccaggag	420
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taccaggagc	tgaccgggct	gaaggctgca	gtgggtgagc	ttccagataa	atccaagcag	540
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<211> 1212

<212> DNA

<213> Pan troglodytes

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ERP02.002APC SEQLIST.TXT

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Macaca mulatta

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 <212> DNA
 <213> Mus musculus

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<210> 6
 <211> 192
 <212> PRT
 <213> Bos taurus

<220>
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 <222> 12, 18, 63, 86, 97, 119, 128, 151, 166, 176, 177, 178
 <223> Xaa = unallocated amino acid

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 Val Gly Glu Leu Ser Glu Lys Ser Lys Leu Gln Glu Ile Tyr Gln Glu
 35 40 45
 Leu Thr Gln Leu Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Xaa Lys
 50 55 60
 Gln Gln Glu Ile Tyr Gln Glu Leu Thr Arg Leu Lys Ala Ala Val Gly
 65 70 75 80
 Glu Leu Pro Glu Lys Xaa Lys Leu Gln Glu Ile Tyr Gln Glu Leu Thr
 85 90 95
 Xaa Leu Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Met Gln
 100 105 110
 Glu Ile Tyr Gln Glu Leu Xaa Arg Leu Lys Ala Ala Val Gly Glu Xaa
 115 120 125
 Pro Glu Lys Ser Lys Gln Gln Glu Ile Tyr Gln Glu Leu Thr Arg Leu
 130 135 140
 Lys Ala Ala Val Gly Glu Xaa Pro Glu Lys Ser Lys Gln Gln Glu Ile
 145 150 155 160

ERP02.002APC SEQLIST.TXT

Tyr Gln Glu Leu Thr Xaa Leu Lys Ala Ala Val Gly Glu Leu Pro Xaa
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<210> 7
 <211> 404
 <212> PRT
 <213> Pan troglodytes

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 35 40 45
 Ser Phe Thr Leu Leu Ala Gly Leu Leu Val Gln Val Ser Lys Val Pro
 50 55 60
 Ser Ser Ile Ser Gln Glu Ser Arg Gln Asp Val Ile Tyr Gln Asn
 65 70 75 80
 Leu Thr Gln Leu Lys Ala Ala Val Gly Glu Leu Ser Glu Lys Ser Lys
 85 90 95
 Leu Gln Glu Ile Tyr Gln Glu Leu Thr Gln Leu Lys Ala Ala Val Gly
 100 105 110
 Glu Leu Pro Glu Lys Ser Lys Gln Glu Ile Tyr Gln Glu Leu Thr
 115 120 125
 Arg Leu Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Met Gln
 130 135 140
 Glu Ile Tyr Gln Glu Leu Thr Arg Leu Lys Ala Val Gly Glu Leu
 145 150 155 160
 Pro Glu Lys Ser Lys Met Gln Glu Ile Tyr Gln Glu Leu Thr Arg Leu
 165 170 175
 Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Gln Gln Glu Ile
 180 185 190
 Tyr Gln Glu Leu Thr Arg Leu Lys Ala Ala Val Gly Glu Leu Pro Glu
 195 200 205
 Lys Ser Lys Gln Gln Glu Ile Tyr Gln Glu Leu Thr Arg Leu Lys Ala
 210 215 220
 Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Gln Gln Glu Ile Tyr Gln
 225 230 235 240
 Glu Leu Thr Gln Leu Lys Ala Ala Val Glu Arg Leu Cys Arg Arg Cys
 245 250 255
 Pro Trp Glu Trp Thr Phe Phe Gln Gly Asn Cys Tyr Phe Met Ser Asn
 260 265 270
 Ser Gln Arg Asn Trp His Asp Ser Ile Thr Ala Cys Lys Glu Val Gly
 275 280 285
 Ala Gln Leu Val Val Ile Lys Ser Ala Glu Glu Gln Asn Phe Leu Gln
 290 295 300
 Leu Gln Ser Ser Arg Ser Asn Arg Phe Thr Trp Met Gly Leu Ser Asp
 305 310 315 320
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 325 330 335
 Pro Ser Phe Asn Gln Tyr Trp Asn Arg Gly Glu Pro Asn Asn Val Gly
 340 345 350
 Glu Glu Asp Cys Ala Glu Phe Ser Gly Asn Gly Trp Asn Asp Asp Lys
 355 360 365
 Cys Asn Leu Ala Lys Phe Trp Ile Cys Lys Lys Ser Ala Ala Ser Cys
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 Pro Pro Pro Ala

ERP02.002APC SEQLIST.TXT

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 <212> PRT
 <213> Homo sapiens

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 35 40 45
 Ser Phe Thr Leu Leu Ala Gly Leu Val Gln Val Ser Lys Val Pro
 50 55 60
 Ser Ser Ile Ser Gln Glu Gln Ser Arg Gln Asp Ala Ile Tyr Gln Asn
 65 70 75 80
 Leu Thr Gln Leu Lys Ala Ala Val Gly Glu Leu Ser Glu Lys Ser Lys
 85 90 95
 Leu Gln Glu Ile Tyr Gln Glu Leu Thr Gln Leu Lys Ala Ala Val Gly
 100 105 110
 Glu Leu Pro Glu Lys Ser Lys Leu Gln Glu Ile Tyr Gln Glu Leu Thr
 115 120 125
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 145 150 155 160
 Pro Glu Lys Ser Lys Met Gln Glu Ile Tyr Gln Glu Leu Thr Arg Leu
 165 170 175
 Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Gln Gln Glu Ile
 180 185 190
 Tyr Gln Glu Leu Thr Arg Leu Lys Ala Ala Val Gly Glu Leu Pro Glu
 195 200 205
 Lys Ser Lys Gln Gln Glu Ile Tyr Gln Glu Leu Thr Arg Leu Lys Ala
 210 215 220
 Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Gln Gln Glu Ile Tyr Gln
 225 230 235 240
 Glu Leu Thr Gln Leu Lys Ala Ala Val Glu Arg Leu Cys His Pro Cys
 245 250 255
 Pro Trp Glu Trp Thr Phe Phe Gln Gly Asn Cys Tyr Phe Met Ser Asn
 260 265 270
 Ser Gln Arg Asn Trp His Asp Ser Ile Thr Ala Cys Lys Glu Val Gly
 275 280 285
 Ala Gln Leu Val Val Ile Lys Ser Ala Glu Glu Gln Asn Phe Leu Gln
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 325 330 335
 Pro Ser Phe Lys Gln Tyr Trp Asn Arg Gly Glu Pro Asn Asn Val Gly
 340 345 350
 Glu Glu Asp Cys Ala Glu Phe Ser Gly Asn Gly Trp Asn Asp Asp Lys
 355 360 365
 Cys Asn Leu Ala Lys Phe Trp Ile Cys Lys Lys Ser Ala Ala Ser Cys
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 Pro Pro Pro Ala

ERP02.002APC SEQLIST.TXT

<210> 9
 <211> 404
 <212> PRT
 <213> Macaca mulatta

<400> 9
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 50 55 60
 Ser Ser Leu Ser Gln Gly Gln Ser Lys Gln Asp Ala Ile Tyr Gln Asn
 65 70 75 80
 Leu Thr Gln Leu Lys Val Ala Val Ser Glu Leu Ser Glu Lys Ser Lys
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 Gln Gln Glu Ile Tyr Gln Glu Leu Thr Arg Leu Lys Ala Ala Val Asp
 100 105 110
 Glu Leu Pro Glu Lys Ser Lys Gln Gln Glu Ile Tyr Glu Glu Leu Thr
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 Arg Leu Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Leu Gln
 130 135 140
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 Lys Ala Ala Val Gly Asp Leu Pro Glu Lys Ser Lys Gln Gln Glu Ile
 180 185 190
 Tyr Gln Glu Leu Thr Arg Leu Lys Ala Ala Val Gly Asp Leu Pro Glu
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 Lys Ser Lys Gln Gln Glu Ile Tyr Gln Lys Leu Thr Gln Leu Lys Ala
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 Ala Val Asp Gly Leu Pro Asp Arg Ser Lys Gln Gln Glu Ile Tyr Gln
 225 230 235 240
 Glu Leu Ile Gln Leu Lys Ala Ala Val Glu Arg Leu Cys His Pro Cys
 245 250 255
 Pro Trp Glu Trp Thr Phe Phe Gln Gly Asn Cys Tyr Phe Met Ser Asn
 260 265 270
 Ser Gln Arg Asn Trp His Asp Ser Ile Thr Ala Cys Gln Glu Val Gly
 275 280 285
 Ala Gln Leu Val Val Ile Lys Ser Ala Glu Glu Gln Asn Phe Leu Gln
 290 295 300
 Leu Gln Ser Ser Arg Ser Asn Arg Phe Thr Trp Met Gly Leu Ser Asp
 305 310 315 320
 Leu Asn His Glu Gly Thr Trp Gln Trp Val Asp Gly Ser Pro Leu Leu
 325 330 335
 Pro Ser Phe Lys Gln Tyr Trp Asn Lys Gly Glu Pro Asn Asn Ile Gly
 340 345 350
 Glu Glu Asp Cys Ala Glu Phe Ser Gly Asn Gly Trp Asn Asp Asp Lys
 355 360 365
 Cys Asn Leu Ala Lys Phe Trp Ile Cys Lys Lys Ser Ala Ala Ser Cys
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<210> 10
 <211> 753
 <212> DNA

ERP02.002APC SEQLIST.TXT

<213> Bos taurus

<400> 10

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gagaacaaca	gcctggataa	gtggctggac	accaggttcc	ggagtctgac	tgaagttgca	300
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<212> PRT

<213> Homo sapiens

<400> 11

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Cys 129	Pro 130	Gln 131	Asn 132	Trp 133	Glu 134	Phe 135	Phe 136	Asp 137	Gly 138	Ser 139	Cys 140	Tyr 141	Phe 142	Phe 143	Ser 144
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Gln 209	Leu 210	Ser 211	Phe 212	Trp 213	Lys 214	Lys 215	Gly 216	Glu 217	Pro 218	Asn 219	Asn 220	His 221	Gly 222	Asp 223	Glu 224

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Thr	Glu	Asn	Pro	Trp	Ile	Cys	Glu	Lys	Pro	Ser					
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